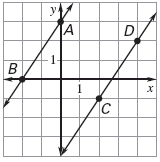
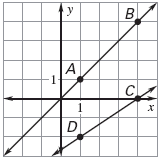
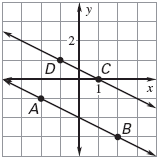
Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_

201 3.4 and 3.5 Extra Practice

**Find the slope of each line. Are the lines parallel?**

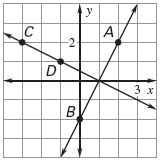
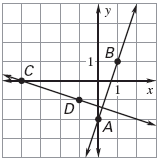
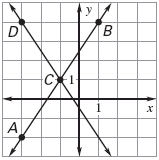
1.



3.

2.

**Find the slope of each line. Are the lines perpendicular?**



6.

5.

4.

**Tell whether the lines through the given points are *parallel*, *perpendicular*, or *neither*.**

1. Line 1: (–1, 2), (2, 3)

Line 2: (0, 0), (3, 1)

1. Line 1: (0, 1), (1, 3)

Line 2: (4, –1), (5, 2)

1. Line 1: (–5, 0), (–3, –2)

Line 2: (–2, 2), (0, 4)

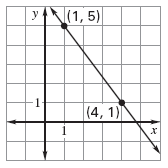
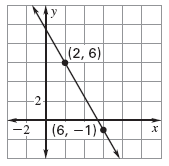
**Tell whether the intersection of and forms a right angle.**

1. *A*(–8,3), *B*(l, 2), *C*(0, 9), *D*(–l, 0)

###### CD

###### AB

1. *A*(3, 2), *B*(5, 10), *C*(7, –4), *D*(3, –3)
2. *A*(5, 4), *B*(–3, 20), *C*(9, –2), *D*(6, 4)

**Write an equation of the line shown.**

14.

13.

**Write an equation of the line that passes through the given point *P* and has the given slope *m*.**

17.

16.

15.

1

3

*P*(3, 4); *m* = 4 *P*(5, −2);*m* = −3 *P*(−3, 2);*m* =

**Write an equation of the line that passes through point *P* and is parallel to the line with the given equation.**

Put #19 in standard form.

*y*

*x*





3

3

4

1. *P*(6, −1); 19.

*P*

5

3

11

4

,

(

)

*y*

*x*







6

5

4

*P*

5

3

11

4

,

(

)

*P*

5

3

11

4

,

(

)

**Write an equation of the line that passes through point *P* and is perpendicular to the line with the given equation.**

1. *P*(−4, −4); *y* = −2*x* + 1 21. *P*(2, −3); *y* = −4*x* − 5

**Graph the equation.**

1. 2*x* + 4*y* = 3 23. *x* + 3*y* = 4*x* − 2 24. *x* − 2*y* = *y* + 5

